

**Marshall University  
Syllabus**

Course Title/Number	<b>MTH 225 – Introductory Statistics</b>
Semester/Year	Fall 2015
Days/Time	Online
Location	Web
Instructor	Laura L. Stapleton
Office	Smith Hall 720
Phone	304-696-4334
E-Mail	<a href="mailto:stapleto@marshall.edu">stapleto@marshall.edu</a>
Office/Hours	By appointment
University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to <a href="http://www.marshall.edu/academic-affairs">www.marshall.edu/academic-affairs</a> and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to <a href="http://www.marshall.edu/academic-affairs/?page_id=802">http://www.marshall.edu/academic-affairs/?page_id=802</a> Academic Dishonesty/ Excused Absence Policy for Undergraduates/ Computing Services Acceptable Use/ Inclement Weather/ Dead Week/ Students with Disabilities/ Academic Forgiveness/ Academic Probation and Suspension/ Academic Rights and Responsibilities of Students/ Affirmative Action/ Sexual Harassment

**Course Description: From Catalog**

This course introduces students to basic probability, descriptive statistics, fundamental statistical inference procedures involving estimation and hypothesis testing for a variety of situations with wide applications.
--

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

<b>Course Student Learning Outcomes</b>	<b>How students will practice each outcome in this Course</b>	<b>How student achievement of each outcome will be assessed in this Course</b>
Students will identify types of data.	Homework	Homework and Exams
Students will organize data using a frequency distribution.	Homework	Homework and Exams
Students will draw and interpret a stem and leaf plot.	Homework	Homework and Exams
Students will summarize data using measures of central tendency.	Homework	Homework and Exams
Students will describe data using measures of variation.	Homework	Homework and Exams
Students will determine the probability of an event and compound events.	Homework	Homework and Exams
Find the conditional probability of an event.	Homework	Homework and Exams

Find the mean, variance and standard deviation for the variable of a binomial distribution.	Homework	Homework and Exams
Find the area under the standard normal distribution, given various z values.	Homework	Homework and Exams
Find the confidence interval.	Homework	Homework and Exams
State the null and alternative hypothesis.	Homework	Homework and Exams
Compute the equation of the regression line.	Homework	Homework and Exams.

### Required Texts, Additional Reading, and Other Materials

1. ***Elementary Statistics: A Step by Step Approach, A Brief Version***, 2013. Seventh Edition. Bluman, Allan G. **OR** eText within the Connect Math license.
2. Connect Math License
3. Access to a computer with Internet Access

### Course Requirements / Due Dates

1. All Module 1 Homework and Module 1 Exam must be completed by Friday, September 25, 2015 at 11:59pm.
2. All Module 2 Homework and Module 2 Exam must be completed by Friday, October 30, 2015 at 11:59pm.
3. All Module 3 Homework and Module 3 Exam must be completed by Friday, December 4, 2015 at 11:59pm.
4. Final Exam must be completed by Friday December 11, 2015 at 11:59pm.

### Grading Policy

A student's grade is assessed by the following percentages earned from each of the categories below:

Category	% of Grade
Module Exams (3 @ 20% each)	60%
Homework	20%
Comprehensive Final	20%
<b>Total</b>	<b>100%</b>

The Mathematics Department uses the following grade scale for its classes:

90 – 100	=	A
80 – 89	=	B
70 – 79	=	C
60 - 69	=	D
Below 59	=	F

1. **You can see your course grade at any time.** In Blackboard's Gradebook, you will see a column called "MTH 225 Grade". This will tell you your course grade at any time of the semester. Grades earned in Connect Math will be exported to Blackboard after the module's due date.
2. **The due dates are firm.** Given the broad deadlines (approximately 4 - 5 weeks to work on a Module), any reason for missing a deadline must be significant and lengthy (absence must be for an extended amount of time not just on the date the deadline is due). If you have a university excused absence (death in the family, university sport or activity absence, illness with a physician's excuse, etc.) and get it approved by the Dean of Student Affairs (Office: Memorial Student Center 2W38), then the missing exam and homework assignments will be opened. If you do not have a university excused absence, the missing exam and homework assignments will not be opened and a grade of 0 will be recorded.

### Attendance Policy

There is absolutely no requirement that you come to campus. You can communicate with me via the course Mail tool in Blackboard. All exams are timed and taken online.

### Connect Math

How do you register for Connect Math?

- Go to our Blackboard course. You can get to Blackboard either through **mymu.marshall.edu** or **muonline.marshall.edu**.
- Enter your username and password.
- Click on **Connect Math**. You will find this either as a link on the main homepage or as a link on the left side of the screen.
- You will see our book and the two boxes below the picture, one containing the word ALEKS and the other containing Connect Math. Click on **the Connect Math box**.
- You will now be directed to Connect Math. Click the **"Sign up now!"** link. (This can be found in the center, towards the lower part of the page, under NEW USER?)
- Enter the following Course Code: **6RTLL-XWJHH**
- **Verify the Course MTH 225 – 106 Fall 2015 - CRN: 3072 Professor Stapleton**
- **You will next be asked to enter your Access Code. Depending on whether or not you have purchased any course materials will determine your next step.**

**Scenario #1: You have already purchased the Connect Math license from the bookstore and are ready to register:**

- Open the license card and enter the 20-digit **Connect Math Access Code** that came with your license information.
- Fill in the remaining information to complete the registration. \*Note: **Register in Connect Math with the same name as what you use in the Banner Student Information System.**

**Scenario #2: You have not purchased the license yet but would like to purchase a Connect Math license from Connect Math (usually a cheaper option for the license). You will be given a choice of purchasing a license with or without the eBook. You must have either a physical textbook or use the eBook. It is your choice which you prefer.**

- Click on the link ***purchase an access code online*** (found just above the window where you enter the Connect Math Access Code) and choose from one of the two links seen there.
  - The \$100.00 license contains 52 weeks of access AND the eBook.
    - This option is best if you prefer to use an eBook as your textbook. You will be allowed access to the eBook on all tests and homework.
  - The \$60.00 license contains 52 weeks of access alone (no eBook).
    - Use this if you plan on buying a copy of the textbook from the MU Bookstore, an online site like eBay or Amazon or from a friend.
- Fill in the remaining information to complete the registration. \*Note: **Register in Connect Math with the same name as what you use in the Banner Student Information System.**

**Scenario #3: You have not purchased any materials yet and are not ready to buy the book or the license.**

Connect Math offers students a two week license to begin the course from Day 1. You can use it for any reason (don't have Financial Aid monies, haven't got around to buying your book, etc.) Once the code expires, you will be locked out of Connect Math account until you purchase a regular Student Access Code. To avoid interruptions, please purchase your Student Access Code BEFORE the two weeks expire. Note: The two weeks will be deducted from the 52 week license when you purchase it.

- Enter the **2 week Financial Aid Access Code: 8DF4C-F1855-B4747-F78F0** in the **Connect Math Access Code** box.
- Fill in the remaining information to complete the registration. \*Note: **Register in Connect Math with the same name as what you use in the Banner Student Information System.**

**How to purchase or Extend Your License:** You can extend your Connect Math account at any time by clicking on **"extend your account"** and entering a purchased Student Access Code. If

your temporary access expires before you purchase a Student Access Code, simply log in to Connect Math and you will be directed on how to extend your current account. You will then be able to continue your course where you left off before the temporary access expired. **You do NOT need to create a new Connect Math account to continue your course.**

**LOGGING IN TO CONNECT MATH:** To log in to Connect Math:

- a) Go to our course in BlackBoard and click on the **Connect Math** icon.
- b) Click on **McGraw-Hill Campus**.
- c) You will see our text book, click on the **Connect Math box (below the picture)**  
**\*The first time you log in, you will be prompted for the Course Code and Access Code. (See the above CONNECT MATH section for this info.) After you enter this the first time, the Blackboard and Connect Math will be linked and your Connect Math grades will automatically be brought over to Blackboard as you complete them.**

**HOMEWORK:** All homework can be found in Connect Math. To the right of each question, you will find some very useful tools that will provide immediate feedback to you, such as **Check Answer**, **Solve It** or **Guided Solution**. Another helpful feature is the **Ask My Instructor** option. This will allow you to send me an email about a specific question.

All of the homework can be taken an **unlimited** number of times so that you feel comfortable with the material before the module exam with the highest score being used to determine your grade. When you take a homework assignment over, you only need to do the problems you got incorrect.

**ASSESSMENT POLICIES:** All module exams and the Final can be found in Connect Math.

- Within each Module, you'll find a Practice exam. **These are not counted for a grade** and are only for your benefit to determine if you are ready for the exam. You do not have to complete the practice exams. I have created them to mimic the Module exams, meaning they have approximately the same number of questions and conditions of the exams. What do I mean by "conditions"? When you take an exam or the final, you will not have access to any tools (Check Answer, Solve It and Guided Solution) that were present in the Homework. If you find that you cannot do the problems without the tools, then you are not ready for the exam! If you take the practice exam, make sure that you take it a few days before the deadline so that you can reflect on what you missed and practice those problems again. I have given you two attempts on each Practice Exam. When you take a Practice Exam over, you only need to do the problems you got incorrect.
- All assessments (all Module exams and the Final) are **open book/open notes**. Note: If you have purchased the Connect Math license with eBook, then the ebook icon will be available during the exams and the Final.
- All assessments (all Module exams and the Final) are timed. When the timer runs out, the assessment will close. So, please pay attention to the time.

- All Module Exams have approximately twenty-five questions worth 4 pts. each. You will have **one** attempt and 5 hours for each. (I don't think it you will need this length of time, but I wanted to give you plenty of time.)
- The Final Exam will be comprehensive. It covers Chapters 1 – 8, and 10. You will have **one** attempt and 5 hours to it. (Again, I don't think it will take you this long, but wanted you to have plenty of time.)
- On the day of a deadline, make sure you start the exam/final with enough time to finish before the deadline at 11:59pm. **It is your responsibility to finish the module BEFORE the deadline. If the exam closes because you ran out of time, that is not a reason to reopen. So, budget your time appropriately.**
- After the due date, you will be able to review your tests by going to the Gradebook and clicking on the test score. You will be able to review each question, your response and also a detailed explanation (on the right with the link, **View the explanation.**) Use this as a learning tool so that you can determine what you did incorrectly in case you see this type of question again on the final.
- You are free to work ahead but you must complete the modules by the due dates. Strategy: Module 1 is much easier than Modules 2 and 3. Try to get through Module 1 as quickly as you can to "bank" time for Modules 2 and 3.

**Tutoring Facilities:** Marshall University provides multiple options for free on-campus tutoring. It is the student's responsibility to take advantage of these facilities in addition to utilizing office hours.

- The Mathematics Department tutoring lab is located in in Smith Music Hall 115. The current schedule can be found at [www.marshall.edu/math/tutoringlab.asp](http://www.marshall.edu/math/tutoringlab.asp). Schedules for the new semester are usually posted during the second week of classes.
- The University College has a tutoring lab on the first floor of Laidley Hall. Information regarding this facility can be found at <http://www.marshall.edu/wpmu/uc/tutoring-services>

**Technical Requirements/Support:** For minimum hardware/software requirements please see: <http://www.marshall.edu/muonline/hardwaresoftwarecheck.asp>

- Be sure to run the free web browser tuneup: <http://www.marshall.edu/muonline/support/tuneup.asp>
- You will need to have several plugins (software) installed on your computer. These plugins are all free. You will need **Real Player** and **Flash Player** to experience the streaming video and audio clips that are part of the course. You can easily check your computer to see if you have these programs (and if you don't install them for free), by clicking on this link: <http://www.marshall.edu/muonline/support/plugin.asp>
- If you have technical problems, please go to the Help Desk: <http://www.marshall.edu/muonline/technicalfaq.asp>

**Technical Support:** Marshall University offers the following technical support for its students who take either traditional or online classes:

**SERVICE DESK HOURS – Located in Drinko Library on the Main MU Campus**

Monday - Thursday: 24 Hours

Friday: 8:00AM - 6:00PM

Saturday & Sunday: On Call Only (Calls received will be returned within 4 hours)

**HELP DESK CONTACT INFO:**

(304) 696-3200 Huntington calling area

(304) 746-1969 Charleston calling area

(877) 689-8638 Toll free, outside the Huntington/Charleston calling areas

<http://www.marshall.edu/inforesources>

[itservicedesk@marshall.edu](mailto:itservicedesk@marshall.edu)

**Need Help with Connect Math?**

To contact their customer service department by email, phone, or fax, please use the following contact numbers: (All hours are EST.)

**Sunday:** 4:00 pm to 1:00 am

**Monday – Thursday:** 7:00 am to 1:00 am

**Friday:** 7:00 am to 9:00 pm

**Telephone:** 949-390-2095

**Fax:** 949-390-2097

**Email:** <http://support.connectmath.com>

	<b>Course Schedule - Please complete in the order shown.</b>
<b>Module 1</b>	<ul style="list-style-type: none"> <li>Click on <b>Read This First</b>.</li> <li>Read the <b>Syllabus</b>.</li> <li>Familiarize yourself with the e-course</li> <li>Introduce yourself to the instructor and the class in the <b>Discussion Board – About Me</b>.</li> <li><b>Register with Connect Math</b> (See the Syllabus for registration information.) Log in to Connect Math.</li> </ul>
	<ul style="list-style-type: none"> <li>Read the Module 1 material: Chapters 1 – 3</li> <li>As you read a section, go to Connect Math and watch the videos and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)</li> </ul>
	<ul style="list-style-type: none"> <li>Take the Module 1 Practice Exam (optional) to determine mastery of the material. You have two attempts on the practice exam.</li> <li><b>All Connect Math homework and the Module 1 Exam must be completed by Friday, September 25<sup>th</sup> at 11:59 pm.</b></li> </ul>
<b>Module 2</b>	<ul style="list-style-type: none"> <li>Read the Module 2 material: Chapters 4 – 6</li> <li>As you read a section, go to Connect Math and watch the videos and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)</li> </ul>
	<ul style="list-style-type: none"> <li>Take the Module 2 Practice Exam (optional) to determine mastery of the material. You have two attempts on the practice exam.</li> <li><b>All Connect Math homework and the Module 2 Exam must be completed by Friday, October 30<sup>th</sup> at 11:59 pm.</b></li> </ul>
<b>Module 3</b>	<ul style="list-style-type: none"> <li>Read the Module 3 material: Chapters 7 - 8, and 10. <b>(We do not cover Chapter 9.)</b> As you read a section, go to Connect Math and watch the videos and complete the associated homework. (Remember that any homework can be taken an unlimited number of times. The best score will be counted.)</li> </ul>
	<ul style="list-style-type: none"> <li>Take the Module 3 Practice Exam (optional) to determine mastery of the material. You have two attempts on the practice exam.</li> <li><b>All Connect Math homework and the Module 3 Exam must be completed by Friday, December 4<sup>th</sup> at 11:59pm.</b></li> </ul>
<b>Final</b>	<ul style="list-style-type: none"> <li>Take the Final Exam Practice Exam (optional) to determine mastery of the material. You have two attempts on the practice exam.</li> <li><b>Final Exam must be completed by Friday, December 11<sup>th</sup> at 11:59 p.m.</b></li> </ul>